Special Issue

Design and Optimization of Clean Energy Systems

Message from the Guest Editors

Clean energy refers to energy originating from renewable and zero-emission sources which do not damage the environment, as well as energy saved by energy-efficient systems. The principal aim of this Special Issue is to provide a platform for the most up-to-date scientific research, developments, and field applications regarding the design and optimization of various promising clean energy systems. Papers related to energy conversion technologies (advanced turbines and engines, fuel cells, batteries, cogeneration and polygeneration, etc.), energy storage systems (thermal, chemical, mechanical, electrochemical, hydrogen, etc.), energy-generation sources (solar, wind, biomass, water, geothermal, nuclear, etc.), emission control strategies (carbon capture, utilization, and storage, efficiency improvement, and waste to energy), and materials technology challenges under the umbrella of clean energy processing are all well within the range of interests in this Special Issue.

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